



Launch Mission Execution Forecast

Mission: Falcon 9 COSMO-SkyMed

Issued: 28 Jan 2022 / 1830L (2330Z)

Valid: 29 Jan 2022 / 1806 – 1817L (2306 – 2317Z)



Forecast Discussion: Continental surface high pressure will build across the state overnight into tomorrow, yielding increasing winds but clearing skies. Breezy to windy conditions are expected tomorrow although winds will begin to diminish towards sunset. Thus the weather concern for launch day is liftoff winds.

For delay day, dry and clear weather will continue with light winds.

Launch Day	Probability of Violating Weather Constraints							
	20%	Primary Concerns: Liftoff winds						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate
	Temp/Humidity:	45°F / 50%	Cumulus	Few	2,500	5,000	Booster Recovery Weather:	Low
Liftoff Winds (200'):		310° 20 - 25 mph			Solar Activity:			Low
24-Hour Delay	Probability of Violating Weather Constraints							
	<10%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	49°F / 50%	Cumulus	Few	2,500	5,000	Booster Recovery Weather:	Low
Liftoff Winds (200'):		300° 7 - 12 mph			Solar Activity:			Low
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.								
Next Forecast Will Be Issued		As Required						